


Revision Date: September 10, 2019

Version No.: 3

SECTION 1 – IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

- | | | |
|------------|---|--|
| 1.1 | Product Identifier
Product Name | TRIETHANOLAMINE 99% |
| 1.2 | Relevant Identified Uses of the Substance or Mixture and Uses Advised Against
Identified uses | Cosmetic raw material |
| 1.3 | Details of the Supplier of the Safety Data Sheet
Company | JEEN International Corporation
24 Madison Road
Fairfield, New Jersey 07004
Tel: +1-973-439-1401
Fax: +1-973-439-1402
email: info@jeen.com
Website: www.jeen.com |
| 1.4 | Emergency telephone number | +1703-527-3887(Chemtrec Int'l Tel - Collect calls accepted) |

SECTION 2 – HAZARDS INGREDIENTS

- | | | |
|------------|--|--|
| 2.1 | Classification of the Substance or Mixture according to Regulation (EC) 1272/2008 | Eye Irrit. 2 |
| 2.2 | Label Elements according to Regulation (EC) EU 1272/2008
Hazard pictogram | GHS07
 |
| | Signal words
Hazard statements
Precautionary statements | Warning
H319: Causes serious eye irritation
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing |
| 2.3 | Other Hazards | None known |

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

- | | | | |
|------------|--|--|---|
| 3.1 | Substances
Chemical characterization
INCI
CAS
EC
Concentration | Cosmetic ingredients
Triethanolamine
102-71-6
203-049-8
>99.0% | N,N - Diethanolamine
111-42-2
≤0.5% |
|------------|--|--|---|



SAFETY DATA SHEET
According to Regulation (EC) No 1907/2006 (REACH)

Revision Date: September 10, 2019

Version No.: 3

3.2 Mixture

SECTION 4 – FIRST AID MEASURES

4.1 Description of First Aid Measures

Eyes:	Immediately flush eyes with plenty of water for at least 15 minutes. Hold eyelids apart while flushing to rinse entire surface of eye and lids with water. Get medical attention.
Skin:	Wash skin with plenty of soap and water for several minutes. Get medical attention if skin irritation develops or persists.
Ingestion:	If patient is conscious and can swallow, give two glasses of water (16 oz), induce vomiting as directed by medical personnel. Do not induce vomiting or give anything by mouth to an unconscious or convulsing person.
Inhalation:	If irritation, headache, nausea, or drowsiness occurs, remove to fresh air. Get medical attention if breathing becomes difficult or respiratory irritation persists.
Other:	None

4.2 Most important Symptoms and Effects No information available

4.3 Indication of any immediate Medical Attention and special Treatment needed
No information available.

SECTION 5 – FIRE FIGHTING MEASURES

5.1 Ignition Temperature- AIT (degrees C)	324°C (615°F)
5.2 Flash Point:	179°C (354°F) (CC)
5.3 Flammable Limits % (Lower-Upper)	Lower:1; Upper: 10
5.4 Fire Extinguishing Agents	Dry chemical, foam or carbon dioxide to extinguish flames. Use water spray to cool fire-exposed containers. Water or foam may cause frothing.
5.5 Unusual or Explosive Hazards	Container may rupture from gas generation in a fire situation. Violent stream generation or eruption may occur upon application of direct water stream to hot liquids.
5.6 Special Protective Equipment for Firefighters	Wear full protective clothing and positive pressure breathing apparatus

SECTION 6 – ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, Protective Equipment and Emergency Procedures	Ventilate area. Avoid breathing vapor. Pressure demand air supplied respirators should always be worn when the airborne concentration of the contaminant or oxygen is unknown. Otherwise, wear respiratory protection and other
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SAFTY DATA SHEET
According to Regulation (EC) No 1907/2006 (REACH)

Revision Date: September 10, 2019

Version No.: 3

person protective equipment as appropriate for the potential exposure hazard.

6.2 Methods and Material for Containment and Cleaning Up

Contain spill if possible. Shovel up material and place in air-tight container. Avoid contact with skin, eyes, or clothing.

6.3 Reference to other Sections

Section 8: Exposure control /personal protection.
Section 13: Waste treatment.

SECTION 7 – HANDLING AND STORAGE

7.1 Precautions for Safe Handling

Minimum feasible handling temperatures should be maintained.

7.2 Condition for Safe Storage, including any Incompatibilities

Periods of exposure to high temperatures should be minimized. Water contamination should be avoided. May segregate or freeze below 16 deg. C (60 deg. F) Thaw and mix before sampling or using. Storage Temperature: 30-43°C (86-109°F).

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Personal Protective Equipment

Eye/face protection:

Safety glasses, chemical type goggles, or face shield recommended to prevent eye contact.

Skin protection:

Workers should wash exposed skin several times daily with soap and water. Soiled work clothing should be laundered or dry cleaned. Use gloves chemically resistant to this material.

Respiratory protection:

Airborne concentration should be kept to lowest levels possible. If vapor, mist or dust is generated and the occupational exposure limit of the product, or any component of the product is exceeded, use appropriate NIOSH or MSHA approved air purifying or air supplied respirator after determining the airborne concentration of the contaminant. Air supplied respirators should always be worn when airborne concentration of the contaminant or oxygen content is unknown.

Ventilation:

Adequate to meet occupational exposure limits (see below)

Exposure limit for the total product:

Triethanolamine ACGIH TLV-TWA 5.0 mg/m³.

N,N Diethanolamine ACGIH TWA 1mg/m³.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic Physical and Chemical Properties

Physical State:

Clear Liquid



SAFTY DATA SHEET
According to Regulation (EC) No 1907/2006 (REACH)

Revision Date: September 10, 2019

Version No.: 3

Odor:	Ammonia Like
Boiling Point:	336.1°C (637.0°F)
Flash Point:	179°C (354°F) (CC)
Freezing Point:	20.5°C/68.9°F
Specific Gravity, @ 25°C:	1.126
Refractive Index @ 25°C:	1.484
Triethanolamine, wt. %:	99.0 Min
Water, wt %:	0.2 Max
Molecular Weight:	149.19 g/mol

SECTION 10 – STABILITY AND REACTIVITY

10.1	Products Evolved with Heat/ Combust.	Toxic levels of ammonia, combustion products of nitrogen, carbon monoxide, carbon dioxide, irritating aldehydes and ketones may be formed on burning in a limited air supply.
10.2	Incompatible Materials	Avoid contact with: Nitrites, strong acids, strong oxidizers. Product may potentially react with various halogenated organic solvents, resulting in temperature and/or pressure increases. Corrosive when wet. Heating above 60°C in the presence of aluminum can result in corrosion and generation of flammable hydrogen gas. Avoid unintended contact with: Halogenated hydrocarbons
10.3	Hazardous Polymerization	Will not occur
10.4	Conditions to avoid	Exposure to elevated temperatures can cause product to Decompose. Generation of gas during decomposition can cause pressure in closed systems. Avoid moisture.

SECTION 11 - TOXICOLOGICAL INFORMATION

11.1	Potential Acute Health Effects	
	Ingestion	No known significant effects or critical hazards.
	Inhalation	No known significant effects or critical hazards.
	Eyes	Slightly irritating to the eyes.
	Skin	No known significant effects or critical hazards.
11.2	Potential Chronic Health Effects	
	Target organs	Contains material which may cause damage to the kidneys and liver. [Triethanolamine]
	Carcinogenicity	See Remarks.
	Mutagenicity	No known significant effects or critical hazards.
	Teratogenicity	No effects or critical hazards.
	Developmental effects	No effects or critical hazards.
	Fertility effects	No known significant effects or critical hazards.



SAFTY DATA SHEET
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Revision Date: September 10, 2019

Version No.: 3

SECTION 12 - ECOLOGICAL INFORMATION

12.1 Amendment and reauthorization act of 1986 title III (EPCRA) section 311 and 312

Delayed (Chronic) Health Hazard:	Yes
Fire Hazard:	No
Immediate(Acute) Health Hazard:	Yes
Reactive Hazard:	Yes
Sudden Release of Pressure Hazard:	No

SECTION 13 - DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods

This product has been evaluated for RCRA characteristics and does not meet the criteria of a hazardous waste if discarded in its purchased form. Under RCRA, it is the responsibility of the user of the product to determine at the time of disposal. Whether the product meets RCRA criteria for hazardous waste. This is because product uses, transformations, mixtures processes etc., may render the resulting materials hazardous.

SECTION 14 – TRANSPORTATION INFORMATION

14.1 Shipping Description

Transportation:	DOT
Proper Shipping Name:	Environmentally hazardous substance, liquid, n.o.s (Diethanolamine)
Hazard Class:	9
Identification Number:	Not regulated
Packing Group:	III
Label required:	Not regulated
	Depending on container size, spills of this product may require reporting under SARA 304 and/or CERCLA 102(A)
MDC Proper Shipping Name:	Not evaluated
ICAO Proper shipping Name:	Not evaluated
TDG Proper Shipping Name:	Not regulated
Hazard Class:	Not regulated.
Identification Number:	Not regulated
Label Required:	Not regulated

SECTION 15 – REGULATORY INFORMATION

Federal Regulations SARA Title III:	None
Section 302/304 Extremely Hazardous Substances	None
Section 311 Hazardous Categorization:	Acute: X Chronic: X Fire: Pressure:
	Reactive: N/A
Section 313 Toxic Chemical:	None
CERCLA 102(A)/dot Hazardous Substances:	None
States Right-to-Know Regulations:	
Chemical Name	State Right-to-Know



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Ethanol 2.2'.2"nitrilotris

FL, PA, RI

State List:

CT (Connecticut), FL (Florida), IL (Illinois), MI (Michigan), LA (Louisiana), MA (Massachusetts), NJ (New Jersey), PA (Pennsylvania), RI (Rhode Island)

California Prop. 65:

The following detectable components of this product are substances, or belong to classes of substances, known to the State of California to cause cancer and/or reproductive toxicity.

ISCA Inventory Status:

Diethanolamine <0.5%

WHMIS Classification:

This product, or its components, are listed on, or are exempt from the Toxic Substance Control Act

Canadian Inventory Status:

Not regulated

Substance List (DSL).

EINECS Inventory Status:

This product or its components, are listed on or are exempt from the Canadian Domestic

This product, or its components, are listed on or are exempt from the European Inventory of Existing Chemical Substances (EINECS) or the European List of Notified Chemical Substances (ELINCS).

Australian Inventory Status:

This product or its components are listed on or are exempt from the Australian Inventory of

Japan Inventory Status:

This product, or its components, are listed on or are exempt from the Japan Ministry of International Trade and Industry (MITI) hazards.

SECTION 16 – OTHER INFORMATION

SPECIFIC HAZARD RATING SYSTEM:

HMIS: Health – 2 Fire – 1 Reactivity – 1

NFPA: Health - 1 Fire - 1 Reactivity -0

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